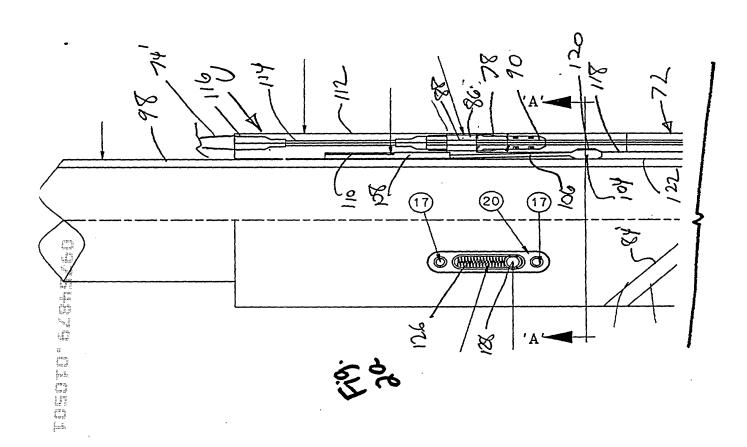
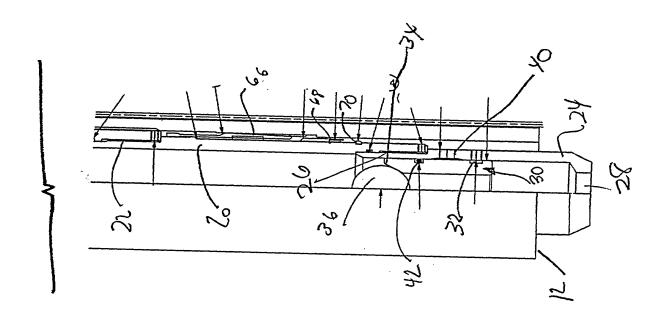


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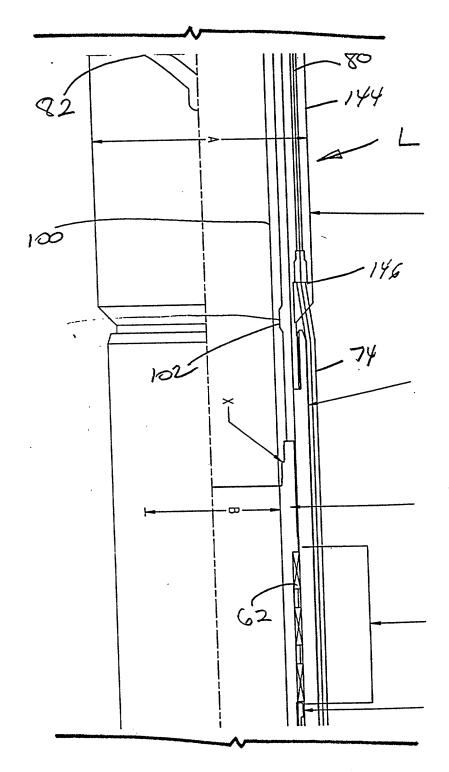


Fig. 26

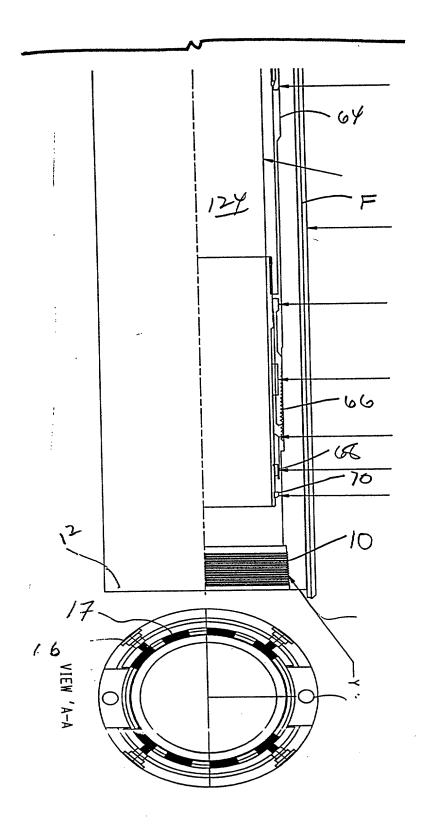
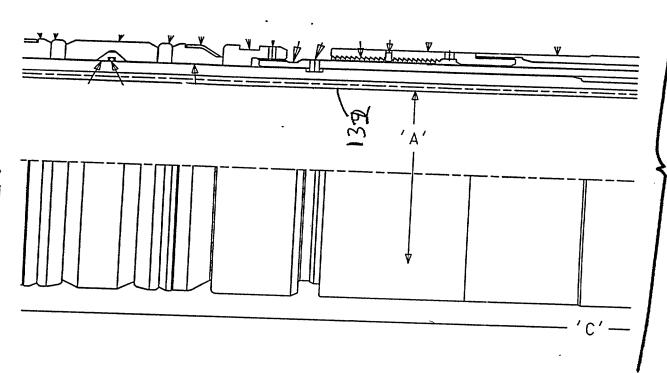
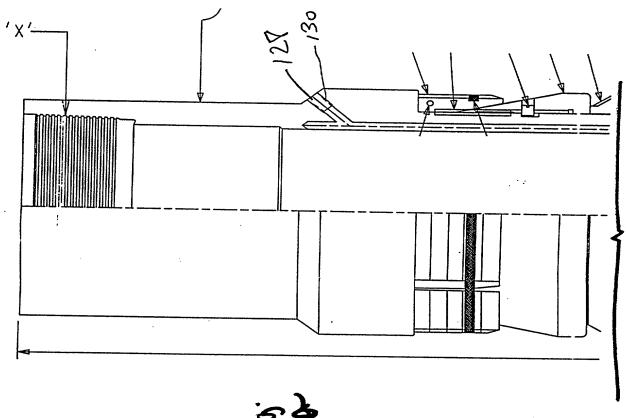


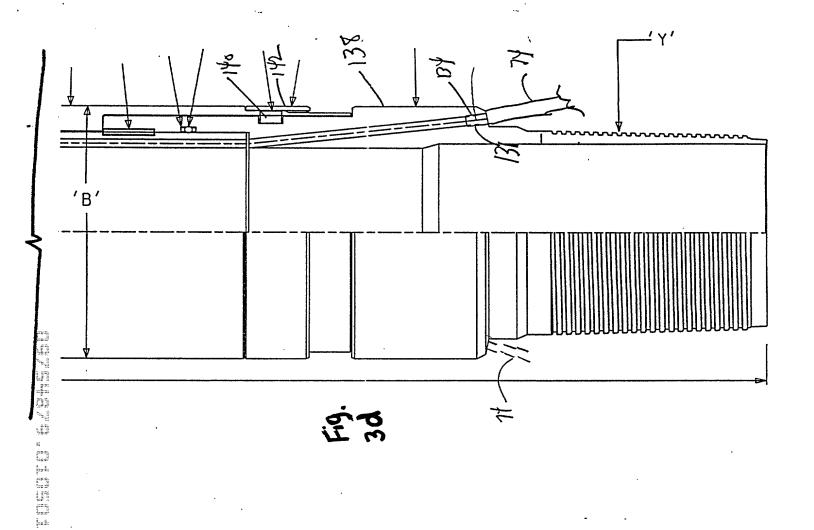
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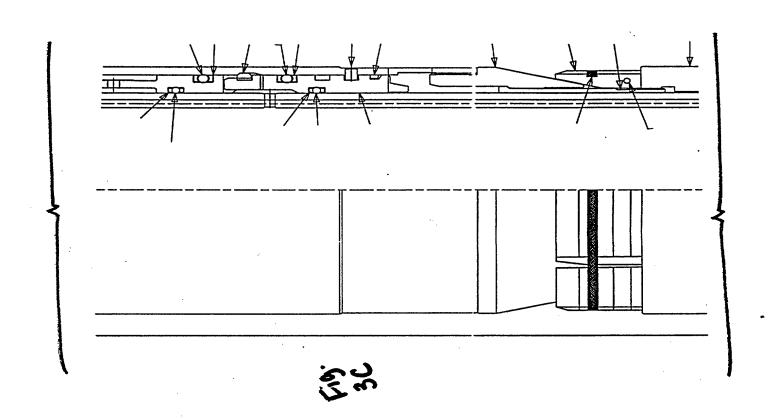


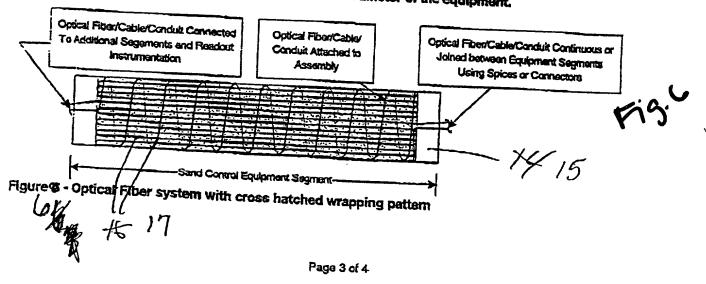
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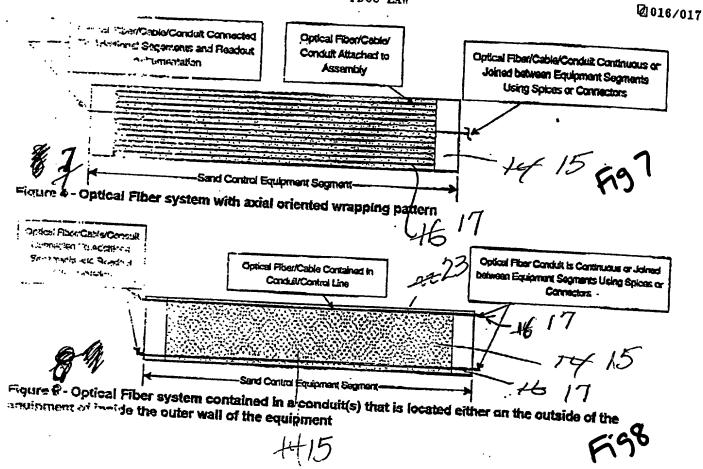


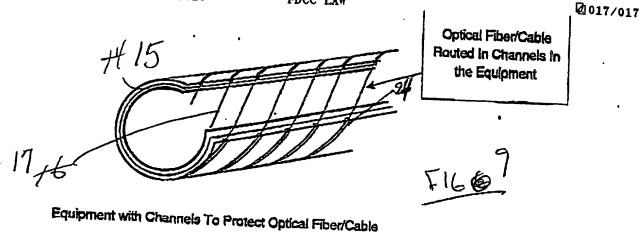
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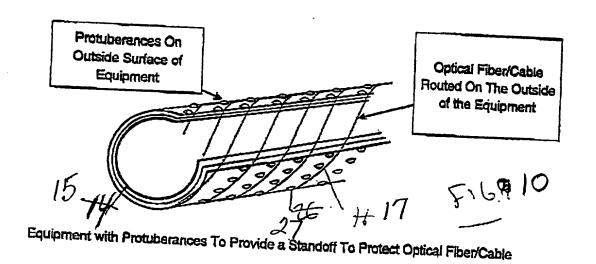


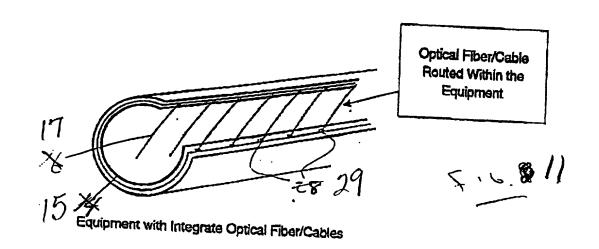












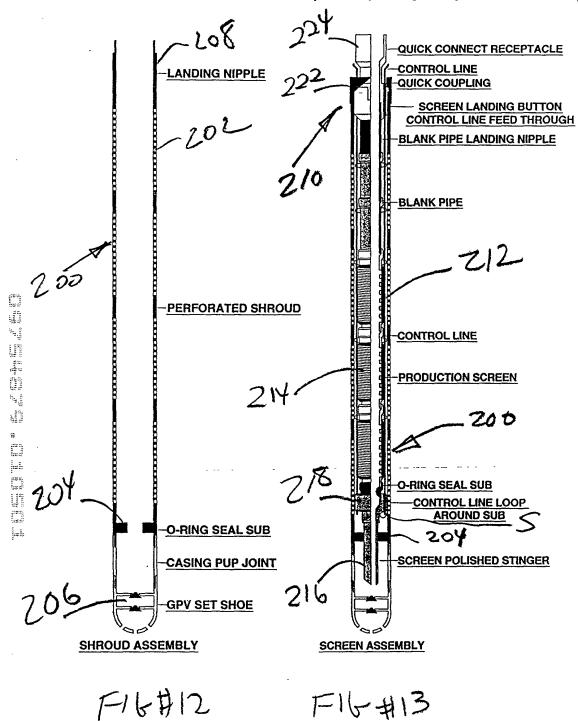
#### SCREEN/LINER SHROUD ASSEMBLY

Open Hole: 8.500 inches

Maximum OD of Shroud: +/- 7.625"
Minimum ID of Shroud: 7.000"

Screen OD: 5-1/2" EXCLUDER2000 w/ 6.375" OD

Design w/ Near or Flush OD connections to be provided by SC Engineering (Rick Peterson - Ref GANNT Chart)



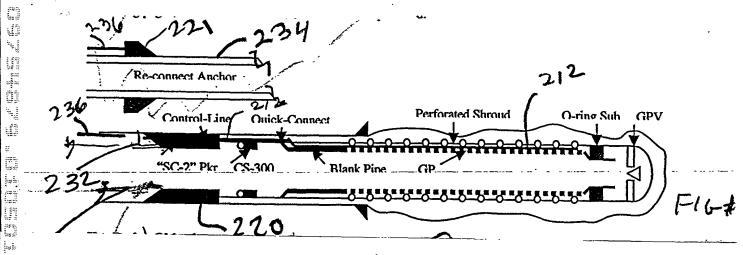
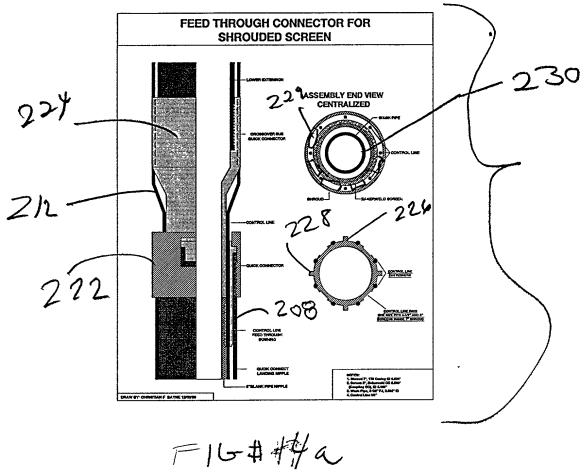
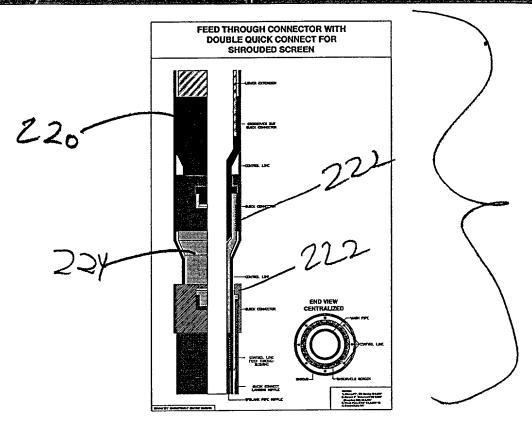


Fig 14

# SC System with Fiber Optics

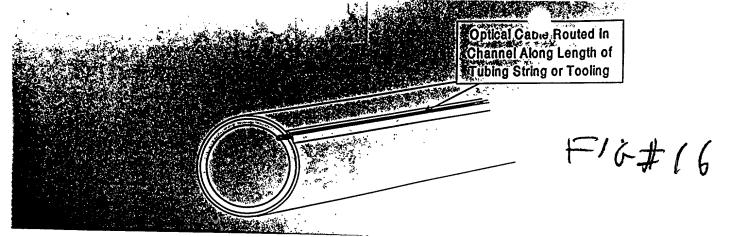


## SC System with Fiber Optics



F16#15







The EQUALIZER is an incovative reservoir diamage system that uses an extended longevity wellscreen and specially designed inflow control device to optimize production and delay water or ges control tong, low-diamagewin, high-faits fortzontal wells. The system balances, or equalizes, longitudinal inflow along the entire length of the wellbore to ensure a uniform production profile.

### TOVALVER Jestip innovations

- Plast complation system of successfully create a uniform production profile along the entitle length of a horizontal vellcore
- First complation system to use a helical channel as a restrictive alement to balance intown form a producing tormation
- Mainematical modeling allows system to be configured with precise combination of cross sectional area and number and engin of changes to provide optimal pressure they varies low rate characteristics to balance well milow, passed on a particular set of formation data.
- EXCLUDER Mall screens unique, single-layer vector memberne with unitom core inceat openings and inflow comparable to that of a formation too exsures well productivity by resisting plugging and existen.

### hiloweontohlevice

The hillow control levice (ICD) uses a helical channel as a restrained as a restrained as a pressure elatibution along the entire bright of the way, it can control the local production are altany contralled the wellbore as a function of both the average alamptown.

pressure and the average productivity of the well. Final screen string for a particular translation is based on pressure drop versus flow rate characteristics required for optimally balanced well indov from the formation. A numerical simulator has been developed to accurately design the CD within acceptable percentage performance. In some applications, it a model is within 5% accurately.

This accuracy rate has been verified through a series of flow tests. Englishers mentioned flow



rates through varying channels with different sizes, pitches and number of spirals. After decument my the results, they developed the software used in the numerical simulator. Operations input data regarding well parameters and reservoir, as well as the pressure and rate at which they want then also to travel. The computer then also to travel, the computer then also the pressure width, height and length required to maintain the desired pressure and tool velocity.